

**A laminate useful as a membrane-electrode assembly for fuel cells,
production process therefor and a fuel cell provided with the laminate****Patent number:** EP1496561**Publication date:** 2005-01-12**Inventor:** FUKUTA KENJI (JP); SADASUE KAZUYUKI (JP);
ISOMURA TAKENORI (JP); SAKATA KANJI (JP)**Applicant:** TOKUYAMA CORP (JP)**Classification:****- international:** H01M8/10**- european:****Application number:** EP20040254135 20040709**Priority number(s):** JP20030195499 20030711; JP20030204483 20030731**Also published as:**

US2005042489 (A1)

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A laminate consisting of an ion exchange membrane layer comprising a porous film reinforcement and a crosslinked ion exchange resin and a conductive layer formed on at least one side of the ion exchange membrane layer and comprising conductive inorganic particles and a crosslinked ion exchange resin, wherein the ion exchange membrane layer and the conductive layer are integrated with each other by the above ion exchange resins constituting these layers. <??>This laminate is excellent in dimensional stability, heat resistance and methanol impermeability, which makes it suitable for use in electrochemical devices such as a direct methanol type fuel cell as a membrane-electrode assembly, has high bonding properties between the electrode layer and the ion exchange membrane layer of the membrane-electrode assembly, and provides a fuel cell whose output is not reduced by long-term use.

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